Absolute Geographic Coordinates (AGCs)

$\propto$ = Longitude"
ß = Latitude"
X = Absolute Longitude (m)
Y = Absolute Latitude (m)

Absolute Geographic Coordinates (AGCs):

A) <u>For a Point Situated at ($\propto$ "W, ß"N):</u>
   $X = \propto \times (2.500/81) \times \cos (ß \times 90/324.000)$ m
   $Y = 10.000.000 - ß \times (2.500/81)$ m

B) <u>For a Point Situated at ($\propto$ "E, ß"N):</u>
   $X = 1.296.000 - \propto) \times (2.500/81) \times \cos (ß \times 90/324.000)$ m
   $Y = 10.000.000 - ß \times (2.500/81)$ m

C) <u>For a Point Situated at ($\propto$ "W, ß"S):</u>
   $X = \propto \times (2.500/81) \times \cos (ß \times 90/324.000)$ m
   $Y = 10.000.000 - ß \times (2.500/81)$ m

D) <u>For a Point Situated at ($\propto$ "E, ß"S):</u>
   $X = 1.296.000 - \propto) \times (2.500/81) \times \cos (ß \times 90/324.000)$ m
   $Y = 10.000.000 - ß \times (2.500/81)$ m

FIG.1

Fuzzy AGCs Determine Geodesic Squares
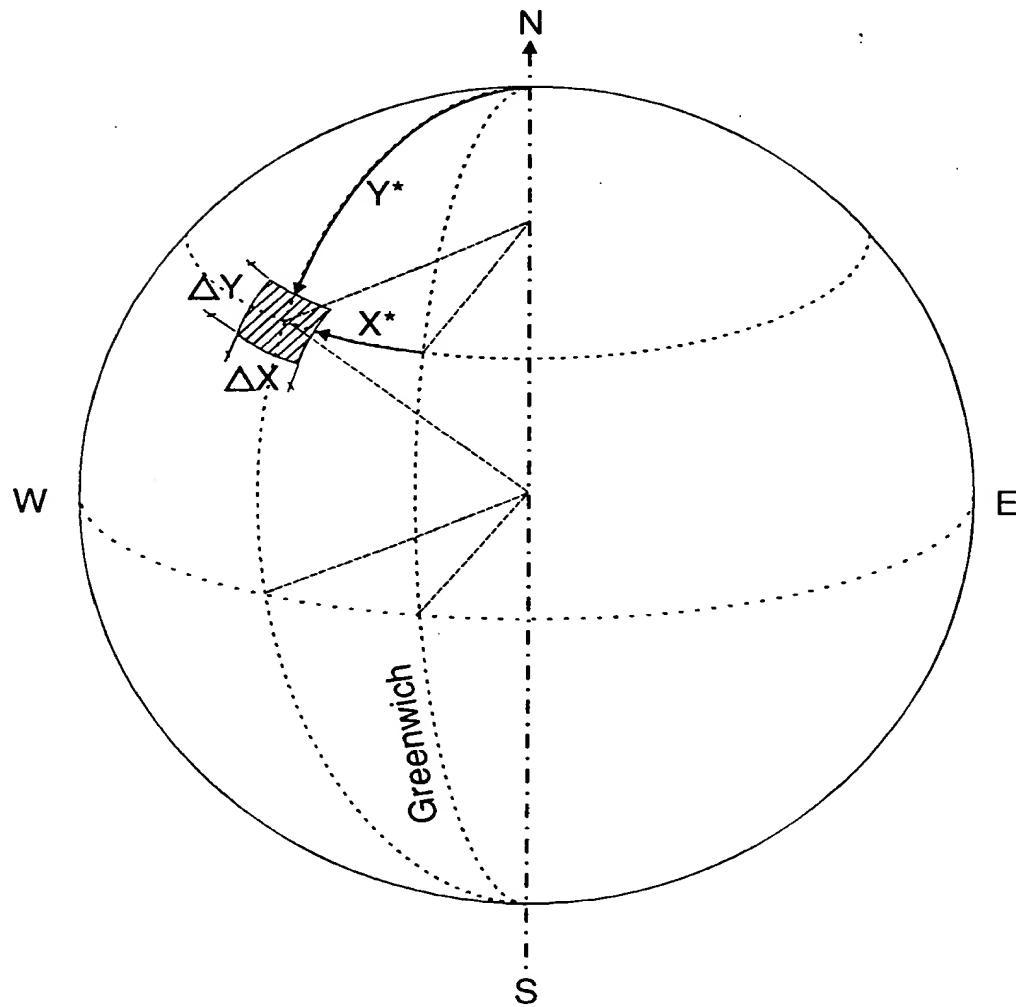
Given a Point of the Earth with AGCs:

$X = x_7x_6x_5x_4x_3x_2x_1x_0$
$Y = y_7y_6y_5y_4y_3y_2y_1y_0$

Then, the "FUZZY" AGCs:

$X^* = x_7x_6x_5x_4x_3{}^*$
$Y^* = y_7y_6y_5y_4y_3{}^*$

Specify the Geodesic Square that contains all AGC1 (X,Y), such that:

$x_7x_6x_5x_4x_3000 \leqslant X \leqslant x_7x_6x_5x_4x_3999; \triangle X = 1000m$
$y_7y_6y_5y_4y_3000 \leqslant Y \leqslant y_7y_6y_5y_4y_3999; \triangle Y = 1000m$

FIG.1
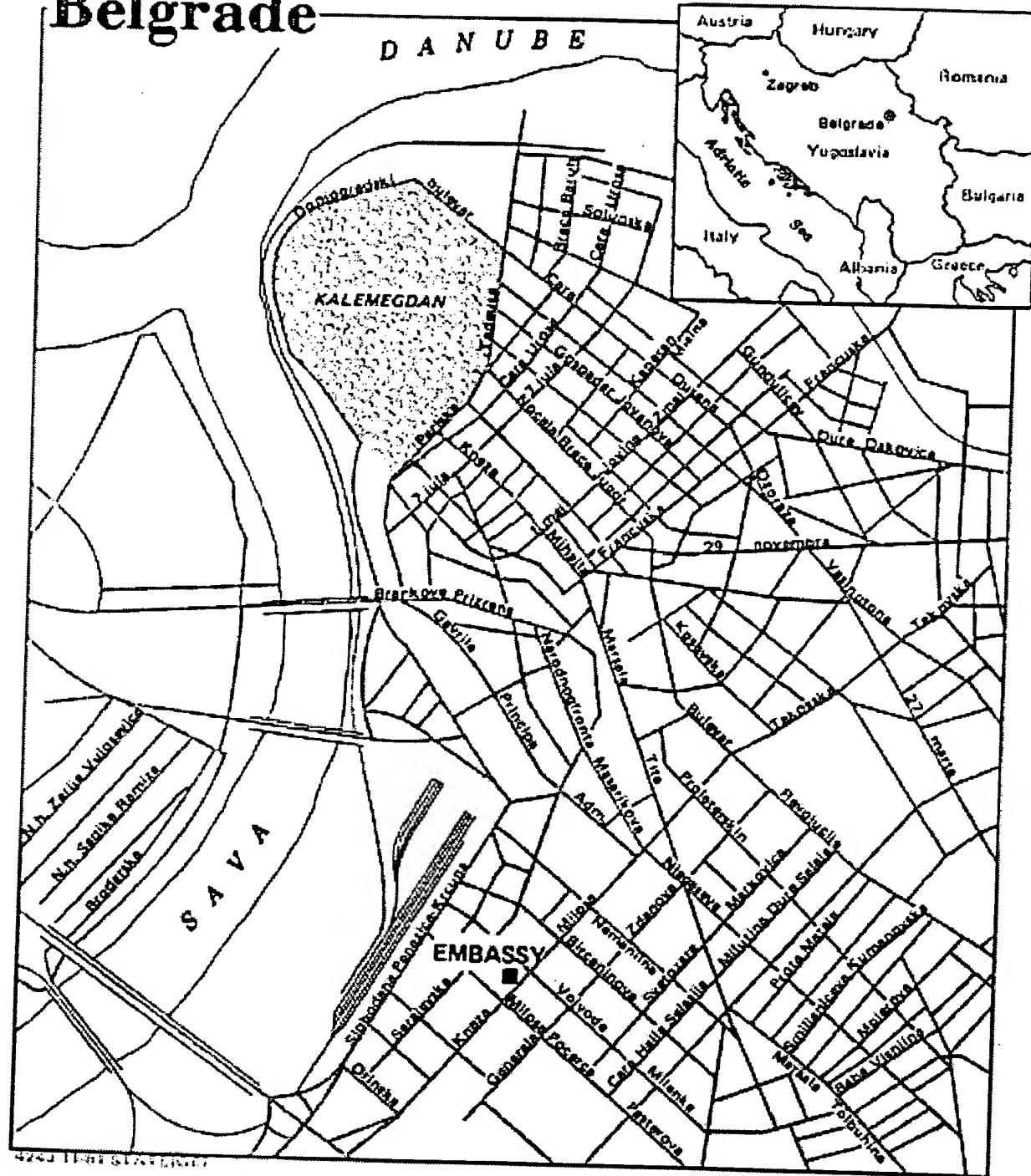
Fig. 3: Conventional Digital Map

# Belgrade

Fig. 4: A typical query

EMBASSY

Q?
query

size
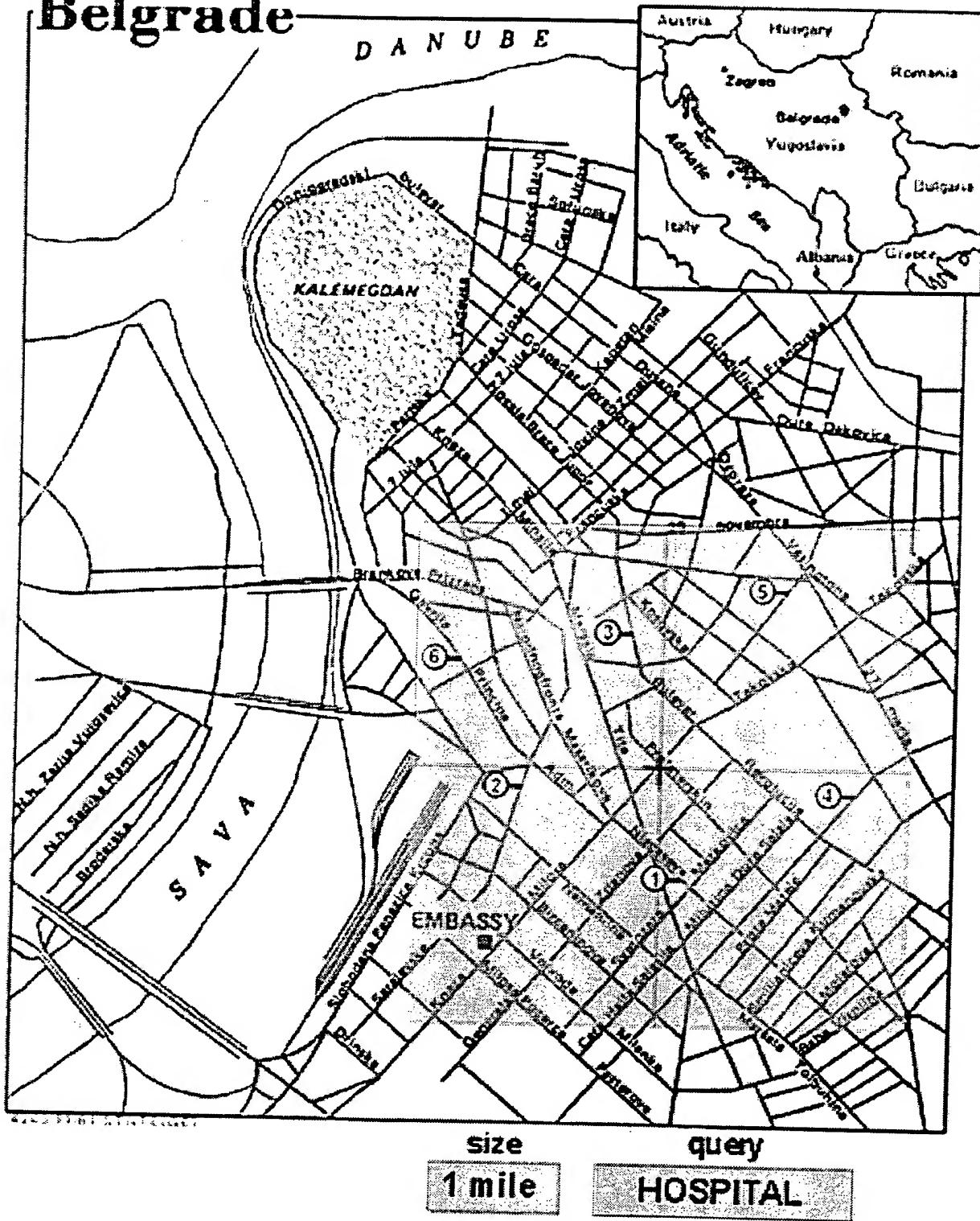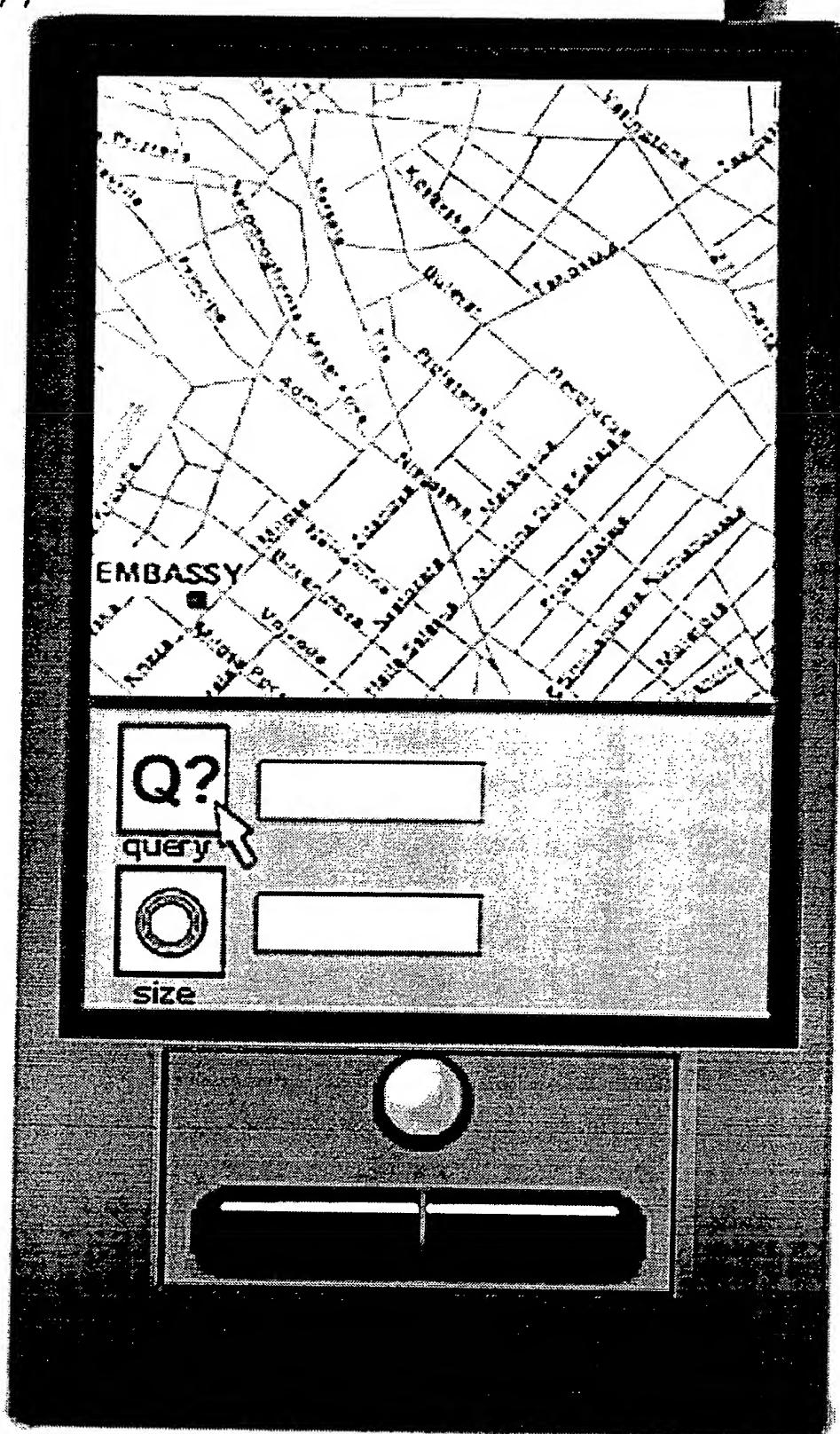
Fig. 5: Personal Information Locator (PIL)
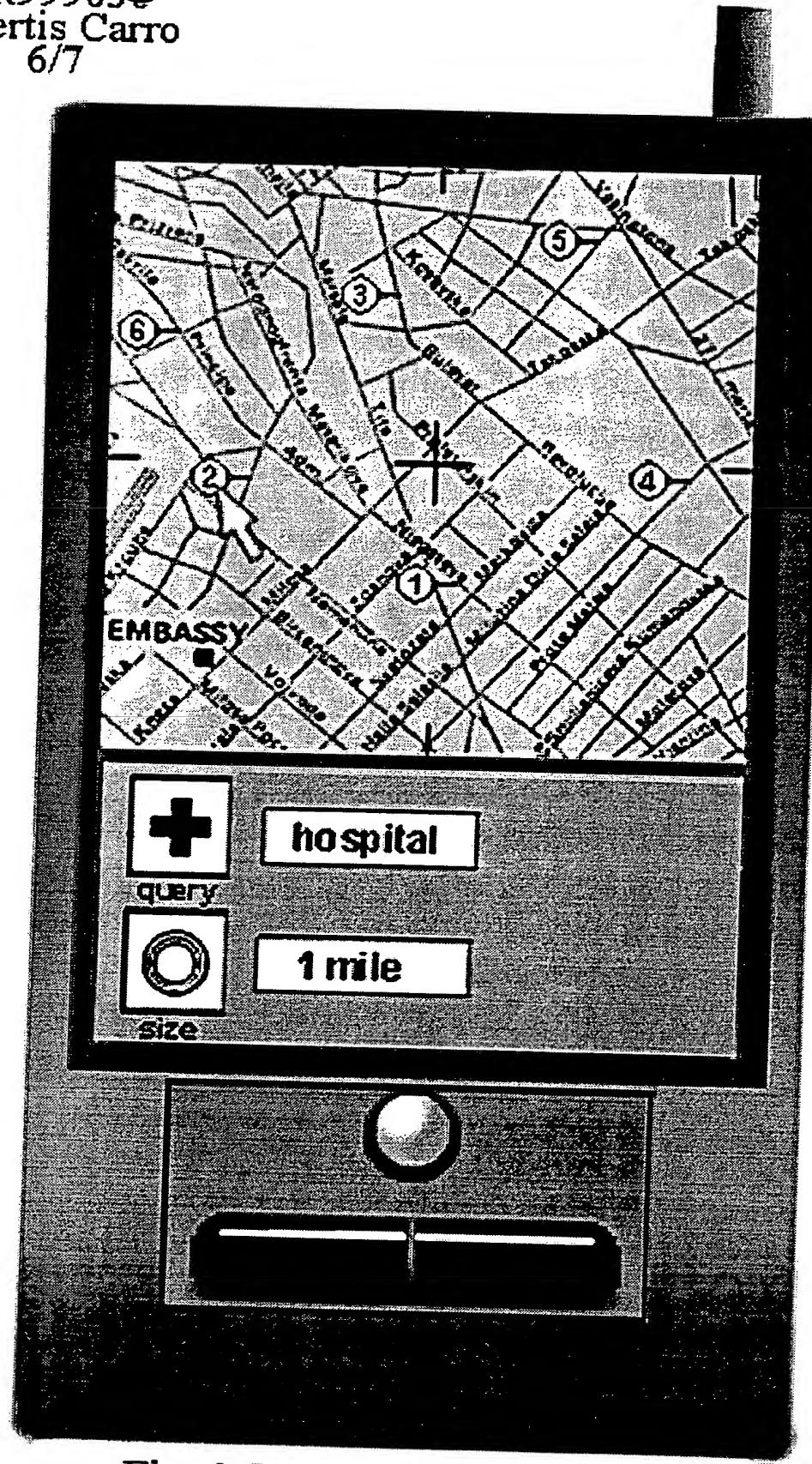
Fig. 6: Iconic map of the query
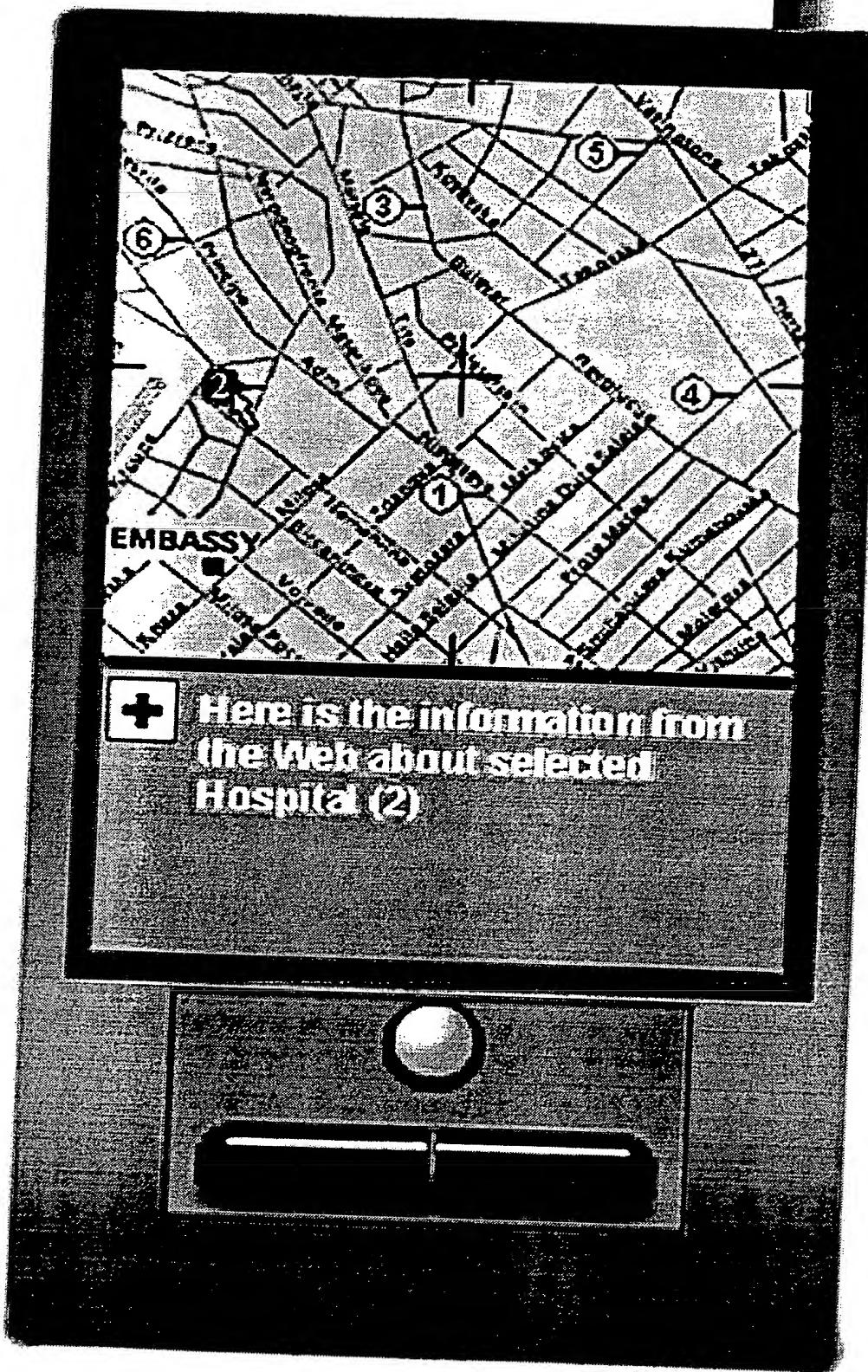
Fig. 7: Information from selected hyperlink icon